

SEP 24 2001

CLAIMS

1. Electromagnetic deflection unit for colour cathode-ray tubes, comprising a pair of frame deflection coils and a pair of line deflection coils, at least one of the two pairs having the shape of a saddle, each saddle-shaped deflection coil (3) extending along a longitudinal axis Z and having a rear bundle (19) on the side facing the electron gun and a front bundle (29) on the side facing the screen, having a window (18) in an intermediate region lying between these said bundles, two lateral harnesses of conductors (120) connecting the front bundle to the rear bundle, each lateral harness comprising a plurality of groups of conductors, characterized in that the external edge (121) of the lateral harness of at least one pair of saddle-shaped coils lies in a radial angular position greater than  $5^\circ$  at least in the front part (22) of the coil.
- 20 2. Deflection unit according to the preceding claim, characterized in that the saddle-shaped coils are the vertical deflection coils.
3. Deflection unit according to Claim 2, characterized in that the 7th-order harmonic of the potential created by the vertical deflection coils is positive at the front of the said coils.
- 25 4. Deflection unit according to one of the preceding claims, characterized in that along the Z axis the external edge of the lateral harness remains in a radial angular position close to  $0^\circ$  as far as a point lying within the intermediate region.
- 30 5. Deflection unit according to the preceding claim, characterized in that the region in which the external edge of the lateral harness remains in a radial angular position close to  $0^\circ$  is equal to or greater than two thirds of the length along Z of the deflection coil.
- 35 6. Deflection unit according to either of the preceding Claims 4 and 5, characterized in that the

external edge of the lateral harness in the front part of the coil remains in an approximately constant radial angular position.

7. Cathode-ray tube which includes a deflection  
5 unit according to any one of the preceding claims.